

Product Datasheet

2-port Full Gigabit Industrial PoE Fiber Switch (ONV-IPS3021PF-SFP)



OVERVIEW

The ONV-IPS3021PF-SFP is a full gigabit industrial PoE fiber switch independently developed by ONV. It has 1*10/100/1000Base-T RJ45 ports and 1*1000Base-X uplink SFP fiber port. Port 1 can support IEEE 802.3 af/at PoE standard, and single-port PoE power up to 30W. As a PoE power supply device can automatically detect and recognize the power-receiving equipment that meets the standard and supplies power through the network cable. It can supply power to PoE terminal equipment such as wireless AP, IP cameras, VoIP phones, and industrial sensors through network cables, and meet the network environment that needs a high-density PoE power supply. It is suitable for intelligent transportation, rail transit, electric power, mining, metallurgy and green energy, and industrial scenes such as construction to set up a cost-effective and stable communication network. Unmanaged mode, plug and play, no configuration, easy to use.

FEATURE

■ Gigabit Ethernet access, SFP fiber port uplink

- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- ◇ Support Gigabit Ethernet port and Gigabit SFP port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

■ Smart PoE power supply

- ◇ IEEE 802.3 af/at PoE standard, without damaging non-PoE devices.
- ◇ 1*10/100/1000Base-T RJ45 ports support PoE power supply to meet the needs of PoE power supply in various scenarios in the industrial field.
- ◇ Priority system for PoE port, it will supply power to the high priority level port first when the power budget is insufficient and avoid overwork of the device.

■ Stable and reliable

- ◇ CCC, CE, FCC, RoHS.
- ◇ The user-friendly panel can show the device status through the LED indicator of PWR, Link, PoE.
- ◇ Low power consumption, no fan, aluminum shell, excellent heat dissipation to ensure the stable operation of the switch.

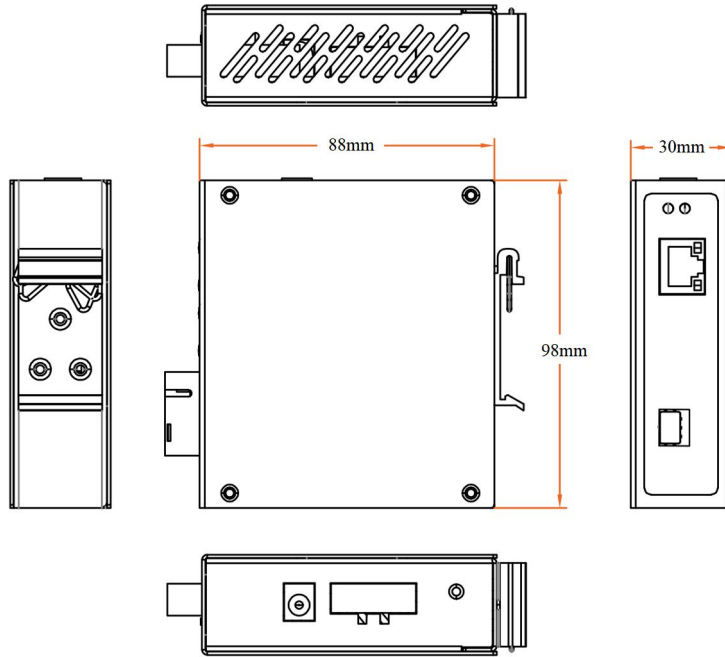
TECHNICAL SPECIFICATION

| Model | ONV-IPS3021PF-SFP |
|----------------------------------|--|
| Interface Characteristics | |
| Fixed Port | 1*DC5521 power socket 1*1000Base-X uplink SFP fiber port (Data) 1*10/100/1000Base-T PoE ports (Data/Power) 2 set of V+, V- redundant DC power interface (3P Phoenix terminal) |

| | |
|-------------------------------|---|
| Ethernet Port | Port 1 support 10/100/1000Base-T(X) auto-sensing, full/ half duplex MDI/ MDI-X self-adaption |
| Twisted Pair Transmission | 10BASE-T: Cat3,4,5 UTP (≤100 meters) 100BASE-TX: Cat5 or later UTP (≤100 meters) 1000BASE-T: Cat5e or later UTP (≤100 meters) |
| Fiber Port | Gigabit optical fiber port, default not include optical module (optional single-mode/ multi-mode, single fiber / dual fiber optical module. LC) |
| Optical Cable/ Distance | Multi-mode: 850nm/ 0-500m Single-mode: 1310nm/0-40km, 1550nm/ 0-120km. |
| Chip Parameter | |
| Network Protocol | IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x |
| Forwarding Mode | Store and Forward(Full Wire Speed) |
| Switching Capacity | 12Gbps (no-blocking) |
| Forwarding Rate@64byte | 8.93Mpps |
| MAC | 2K |
| Buffer Memory | 2Mb |
| Jumbo Frame | 9216B |
| LED Indicator | Power: PWR (Green), PoE: PoE (Green) Network: Link (Yellow), Fiber port: G2 (Green) |
| PoE & Power Supply | |
| PoE Port | Port 1 |
| Power Supply Pin | 1/2(+) 3/6 (-) |
| Max Power Per Port | 30W, IEEE 802.3 af/at |
| Power Consumption | Standby<1W, Full load af<15, at<30W |
| Power Supply | No, optional 36W/48V industrial power supply |
| Working Voltage | DC44-56V, 3P industrial Phoenix terminal, support anti-reverse protection. |
| Physical Parameter | |

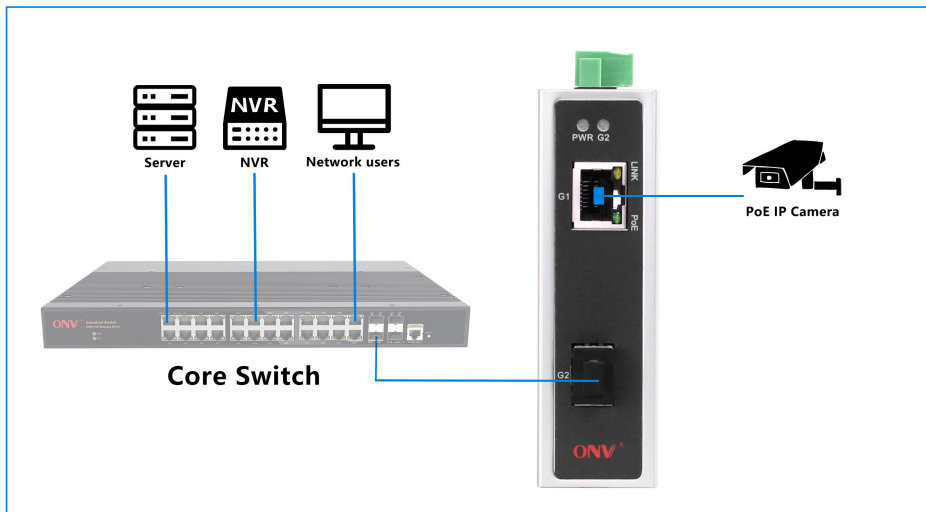
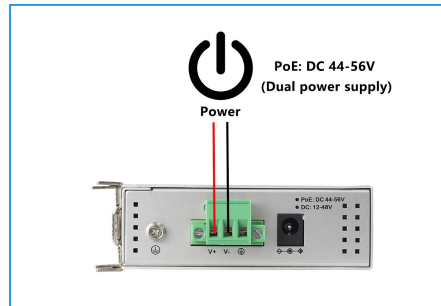
| | |
|-------------------------------------|--|
| Operation TEMP/ Humidity | -40~+75°C, 5%~90% RH Non condensing |
| Storage TEMP/ Humidity | -40~+85°C, 5%~95% RH Non condensing |
| Dimension (L*W*H) | 98*88*30mm |
| Net /Gross Weight | <0.25kg / <0.35kg |
| Installation | Desktop, DIN Rail |
| Certification & Warranty | |
| Lightning Protection | <p>Protection level: IP30</p> <p>Lightning protection: 6KV 8/20us</p> <p>IEC61000-4-3 (RS):10V/m (80~1000MHz)</p> <p>FCC Part 15/CISPR22 (EN55022): Class B</p> <p>IEC61000-6-2 (Common Industrial Standard)</p> <p>IEC61000-4-9 (Pulsed magnet field): 1000A/m</p> <p>IEC61000-4-10 (Damped oscillation): 30A/m, 1MHz</p> <p>IEC61000-4-12/18 (Shockwave): CM 2.5kV, DM 1kV</p> <p>IEC61000-4-4(EFT): Power cable:±4kV, Data cable: ±2kV</p> <p>IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s</p> <p>IEC61000-4-2 (ESD): ±8kV contact discharge, ±15kV air discharge</p> <p>IEC61000-4-6 (Radio frequency transmission): 10V(150kHz~80MHz)</p> <p>IEC61000-4-8 (Power frequency magnetic field):100A/m, 1000A/m, 1s-3s</p> <p>IEC61000-4-5 (Surge): Power cable: CM±4kV/ DM±2kV, Data cable: ±4kV</p> |
| Mechanical Properties | IEC60068-2-6 (Anti Vibration), IEC60068-2-32 (Free Fall), IEC60068-2-27 (Anti Shock) |
| Certification | CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS |
| Warranty | 5 years, lifelong maintenance. |

DIMENSION



APPLICATION

- Plug and play
- Wide temperature range
- DIN Rail installation



ORDERING INFORMATION

| Model | Description | Recommended Power Supply |
|-------------------|---|--------------------------|
| ONV-IPS3021PF-SFP | Unmanaged industrial PoE fiber switch with 1*10/100/1000M RJ45 ports and 1*1000M uplink SFP port. Port 1 can support IEEE 802.3 af/at PoE standard. It can support dual DC redundant power input and DIN rail mounting. | 48V/36W |

Note: The optical module and power supply are not included, and need to be purchased separately.

PACKING LIST

| Packing List | Content | Qty | Unit |
|--------------|---|-----|------|
| | 2-port full gigabit industrial PoE fiber switch | 1 | SET |
| | User Guide | 1 | PC |
| | Warranty Card | 1 | PC |

OPTICAL MODULE

| Product | Model | Description | Unit |
|----------------------|----------|---|------|
| 1.25G Optical Module | 2630-G | Industrial optical module, 1.25G multi-mode dual fiber 850nm, transmission distance: 550m, LC interface, support DDM function, hot plug and pull. | PC |
| | 2632-G | Industrial optical module, 1.25G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, support DDM function, hot plug and pull. | PC |
| | 2612-T-G | Industrial optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, LC interface, support DDM function, hot plug and pull. | PC |

| | | | |
|--|-------------|---|----|
| | 2613-R-G | Industrial optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, LC interface, support DDM function, hot plug and pull. | PC |
| | 2612-T-G-SC | Industrial optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, SC interface, support DDM function, hot plug and pull. | PC |
| | 2613-R-G-SC | Industrial optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, SC interface, support DDM function, hot plug and pull. | PC |

POWER SUPPLY

| Product | Model | Description | Unit |
|--|-------------|--|------|
| 36W Desktop Power Adapter | GWS-AP36-52 | Desktop 36W single set of output power adapter Input Voltage: AC100V~240V 50-60Hz, 0.56A Output Voltage: DC52V, 0.7A Operation Temperature: -20℃ to +65℃ | PC |
| 36W DIN Rail Industrial Power Supply | GWS-DP36-48 | DIN Rail 36W single set of output power supply Input Voltage: AC100V~240V 50-60Hz, 0.56A Output Voltage: DC48V, 0.75A Operation Temperature: -40℃ to +70℃ | PC |

CONTACT US



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